

Thank you for the opportunity to make a "Statement for the Record" regarding Proceeding 04-186.

I own and operate a small rural wireless Internet Service Provider in western Lenawee County, Michigan. Radio Frequency Interference (RFI) is an issue in all three ISM, UNI unlicensed radio spectrum bands that we use, 900 MHz, 2.45 GHz and 5.2 - 5.8 GHz.

In the rolling hills of southern Michigan, characterized by multiple forest plots and roads frequently lined with heavy arboreal foliage; radio frequency interference in the form of dispersion, diffraction, absorption and interfering carriers are most common.

The available frequencies in the ISM, UNI bands do not penetrate arboreal foliage with predictable efficiency. Consequently, our radio based WISP services are not available to many of our potential customers.

However, the lower frequencies of the unused Television channels, even as high as 450-750 MHz is much more efficient at penetrating arboreal foliage. (Evidenced by the placement of off-air TV antennas as low as 15-20 feet above ground level; and reception of used TV Frequencies from as far away as 50-60 miles.)

I encourage the Commission to approve the use of "unused TV Spectrum" for the distribution wireless Networking and Internet Service Provision for the underserved rural, urban and suburban areas of the United States.

Good Engineering Practices shall provide non-interfering carriers to reach all available customers without causing interference to existing TV receivers on adjacent or near television frequencies.

It is really that simple.

Thank you again for your time, patience and the opportunity for us to make this statement.